

Attorney Docket No. RECP:110US
U.S. Patent Application No. 10/815,066
Date: November 4, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

What is claimed is:

1. (cancelled)
2. (previously presented) The operating knob as defined in claim 10 wherein the optical system is a microscope.
3. (previously presented) The operating knob as defined in claim 10 wherein both the first and the second rotating element exhibit on a circumferential surface a profile in the form of grooves, notches or ribs.
4. (previously presented) The operating knob as defined in claim 10 wherein both the first and the second rotating element exhibit on a circumferential surface a rubber inlay.
5. (previously presented) The operating knob as defined in claim 10 wherein both the first and the second rotating element have a partly conical body and each body has a cylindrical step at its wider part.
6. (original) The operating knob as defined in claim 5 wherein the conical body of the first and the second rotating element exhibits an angle of 5° to 10° with respect to a rotating axis of the operating knob.
7. (original) The operating knob as defined in claim 6 wherein the angle exhibits 7° .

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8. (currently amended) An operating knob for an optical system comprises: a first and a second coaxially arranged rotating element, wherein the first and the second rotating element are independently rotatable, the first rotating element rests against the optical system, the second rotating element is arranged downstream of the first rotating element, the first and the second rotating element have at least partly conical form, and that the first rotating element has one side directly opposing the second rotating element and has a larger maximum diameter than the second rotating element and a step is formed at the side of the second rotating element directly opposing the first rotating element, wherein the step possesses a diameter which is approximately the diameter of the first rotating element close to the second conical rotating element and wherein the first conical rotating element has a maximum diameter (D_1) close to the optical system from 57.0 to 63.0 mm, and a diameter (D_2) close to the second conical rotating element from 51.5 to 56.5 mm and wherein the second conical rotating element has a maximum diameter (D_3) close to the first conical rotating element from 34.0 to 38.0 mm and close to a front end from 29.3 to 33.3 mm.

9. (original) The operating knob as defined in claim 8, wherein the first conical rotating element has a maximum diameter (D_1) close to the optical system of 60.0 mm, and a diameter (D_2) close to the second conical rotating element of 54.5 mm and wherein the second conical rotating element has a maximum diameter (D_3) close to the first conical rotating element of 36.0 mm and close to the front end of 31.3 mm.

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10. (original) The operating knob as defined in claim 8, wherein the first rotating element and the second rotating element have a conical body, which is followed by a cylindrical step at the end with the maximum diameter.

11. (original) The operating knob as defined in claim 10, wherein the cylindrical step has a width of 9 mm.

12. (previously presented) The operating knob as defined in claim 8, wherein a separating groove is formed by the step between the first and the second rotating element.

13. (previously presented) The operating knob as defined in claim 12, wherein a cone shaped depression is formed in the direction to the axis of the first rotating element, wherein the step of the second rotating element has a cone shaped mount, and wherein the cone shaped depression and the cone shaped mount are attached to each other such that the separating groove between the first and the second rotating element is formed exactly at the end of an envelope surface of the first rotating element.

14. (previously presented) The operating knob as defined in claim 8, wherein the first and the second rotating element is made from an injection moulded polymer.

15. (currently amended) The operating knob as defined in claim 8, wherein the first and the second rotating element is made from a fine machined stainless steel.

16. (currently amended) A microscope comprising the operating knob as claimed in claim 8 in turn comprising: a first and a second coaxially arranged rotating element, wherein the first and the second rotating element are independently rotatable, the first rotating element rests against an

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optical system, the second rotating element is arranged downstream of the first rotating element, the first and the second rotating element have at least partly conical form, and that the first rotating element has one side directly opposing the second rotating element and has a larger diameter than the second rotating element and a step is formed at the side of the second rotating element directly opposing the first rotating element, wherein the step possesses a diameter which is approximately the diameter of the first rotating element.

17. (currently amended) The microscope as defined in claim 8 16 wherein both the first and the second rotating element exhibit on a circumferential surface a profile in the form of grooves, notches or ribs.